OF PETCHALLES

Attorney Docket No. IMMR-057/00US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of **James F. Kramer et al.**

Serial No.:

09/837,860

Examiner:

Xiao Min Wu

Confirmation No.:

7509

Art Unit:

2674

) IVED

Filed:

April 17, 2001

OCT 0 8 2004

For:

INTERFACE FOR CONTROLLING A GRAPHICAL IMAGE of Center 2600

U.S. Patent and Trademark Office 220 20th Street South Customer Window, **Mail Stop Amendment** Crystal Plaza Two, Lobby, Room 1B03 Arlington, Virginia 22202

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08A for the above-identified patent application.

- [] In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- [x] In accordance with 37 C.F.R. §1.97(c), also enclosed is:
 - [x] the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
 - a statement as specified in 37 C.F.R. §1.97(e).
- [] In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. § 1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- [x] Check in the amount of \$180.00 is attached.
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- Please charge \$___ to Deposit Account No. 50-1283 for the total fee. This paper is being submitted in duplicate.

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Attorney Docket No. IMMR-057/00US Serial No. 09/837,860

Page 2

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 50-1283.

Dated: October 4, 2004

Cooley Godward LLP ATTN: Patent Group One Freedom Square Reston Town Center 11951 Freedom Drive Reston, VA 20190-5656

Tel: (703) 456-8000 Fax: (703) 456-8100

216766 v1/RE 4N9@01!.DOC

Respectfully submitted, COOLEY GODWARD LLP

By:

Philip W. Marsh Reg. No. 46,061

ttorney Docket No. IMMR-057/00US

PATENT

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James F. Kramer, et al.

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INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(c)

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56, Applicant(s) hereby submits the following information in conformance with 37 C.F.R. §§1.97 and 1.98.

- [x] Pursuant to 37 C.F.R. §1.98, an electronic copy of each document cited in the attached Form PTO/SB/08A is provided on the enclosed CD-ROM.
- [] No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. ___ to which the above-identified application claims priority under 35 U.S.C. §120.
- [] No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98 because this application was filed after June 30, 2003.
- Publication(s) ___ listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to ___ application serial no. and mailed on .
- [] Enclosed is a copy of a non-English publication(s) ___. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).

Attorney Docket No. IMMR-057/00US Serial No. 09/837,860 Page 2

	[]	publica	losed is a copy of a non-English publication(s) English language lication (copy enclosed) claims priority from this non-English lication.				
	[]			explanation of non-English publication(s) for which an ation is not available.			
	[]		sed is an English translation of non-English publication(s) cited attached Form PTO/SB/08A.				
	[]	Enclos	ed is a o	copy of pending patent Application Serial No			
C.F.R.				closure Statement is filed after the period specified in 37 he mailing of:			
		[x]	a final	action under 37 C.F.R. §1.113;			
		[]	a notic	e of allowance under 37 C.F.R. §1.311; or			
		[]	an action that otherwise closes prosecution in this application.				
	In acco	ordance	with 37	C.F.R. §1.97(c) also enclosed is:			
		[x]	Fee un	der 37 C.F.R. §1.17(p) in the amount of \$180.00; or			
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				Each item of information contained in the Information Disclosure Statement cited herein was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or			
			[]	No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, having made a reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing date of the Information Disclosure Statement.			

Attorney Docket No. IMMR-057/00US Serial No. 09/837,860

Page 3

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Dated: October 4, 2004

Cooley Godward LLP ATTN: Patent Group One Freedom Square Reston Town Center 11951 Freedom Drive Reston, VA 20190-5656

Tel: (703) 456-8000 Fax: (703) 456-8100

216762 v1/RE 4N9601!.DOC Respectfully submitted, COOLEY GODWARD LLP

By:

Philip W. Marsh Reg. No. 46,061

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1

Substitute for form 1449A/PTO

	Complete if Known
Application Number	09/837,860 RFCHVE
Filing Date	April 17, 2001
First Named Inventor	James F. Kramer 0CT 0 8 ZUU4
Art Unit	2674
Examiner Name	Xiao Min Wu Technology Center 2
Attorney Docket Number	IMMR057/00US

			U.S. PATENT DOC	UMENTS	
		Document Number			
Examiner	Cite No. ¹	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6,497,672	12/24/2002	Kramer	
		6,422,941	7/23/2002	Thorner et al.	
		6,413,229	7/02/2002	Kramer et al.	
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	,	6,160,489	12/12/2000	Perry et al.	
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		4,127,752	11/28/1978	Lowthorp	
		2,972,140	2/14/1961	Hirsch	
		2001/0043847	11/22/2001	Kramer	

Examiner Signature	Date Considered	

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Complete if Known 09/837,860 Application Number INFORMATION DISCLOSURE Filing Date April 17, 2001 0 8 2004 STATEMENT BY APPLICANT **First Named Inventor** James F. Kramer 2674 Art Unit Technology Center 2600 (use as many sheets as necessary) Xiao Min Wu **Examiner Name**

Attorney Docket Number

Substitute for form 1449A/PTO

Sheet

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or	Pages, Columns, Lines,	
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear
		JP	H2-185278		7/19/1990	Taito Corporation	
		JP	H4-8381		1/13/1992	Epoch Co. and Key- Planning Co.	
		JP	H7-24147		1/27/1995	Sega Corporation	
		JP	H5-192449		8/3/1993	Taito Corporation	
						<u> </u>	

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Application Number

Og/837,860

Filing Date

April 17, 2001

First Named Inventor

Art Unit

Examiner Name

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Sheet 3 of 4

	Γ	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS
Examiner nitials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," <i>Master of Science Thesis</i> , MIT, Aug. 1990, archived Nov. 8, 1990.
		CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," <i>Bachelor of Science Thesis</i> , MIT, May 1983, archived June 23, 1983.
		WIKER, "Teletouch Display Development: Phase 1 Report," <i>Technical Report 1230</i> , Naval Ocean Systems Center, San Diego, July 1988.
		BLISS, "Optical-to-Tactile Image Conversion for the Blind," <i>IEEE Transactions on Man-Machine Systems</i> , Vol. MMS-11, No. 1, March 1970.
		JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," Armstrong Aerospace Medical Research Laboratory, AAMRL-TR-90-039, August, 1990.
		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," PRESENCE, 4(4):387-402, Harvard Univ., 1995.
		AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.
		EBERHARDT et al., "Inducing Dynamic Haptic Perception by The Hand: System Description and Some Results," DSC-Vol. 55-1, <i>Dynamic Systems and Control</i> : Volume 1, ASME 1994.
		GOBEL et al., "Tactile Feedback Applied to Computer Mice," <i>International Journal of Human-Computer Interaction</i> , Vol. 7, No. 1, pp. 1-24, 1995.
		PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.
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		KACZMAREK et al., "Tactile Displays," Virtual Environment Technologies, Chap. 9, pp. 349-414.
		LAKE, "Cyberman from Logitech," at http://www.ibiblio.org/GameBytes/issue21/greviews/cyberman.html, 1994.
		"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).

Examiner	Date	
Signature	Considered	

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4 Sheet

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First Named Inventor	James F. Kramer	OCT 0.8 2004	
Art Unit	2674		
Examiner Name	Xiao Min Wu	Technology Cenjer 2600)
Attorney Docket Number	IMMR057/00US	37 - 38	•

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. "Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages).		
		SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1994		
		YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," <i>Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems</i> , Raleigh, NC, July 7-10, 1992		
		NOLL, "Man-Machine Tactile," SID Journal, July/August 1972 Issue.		
		ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance In Telepresence Tasks," <i>Ph.D. Dissertation</i> , Stanford University, June 1994.		
		ZILLES, "A Constraint-Based God-Object Method for Haptic Display," Department of Mechanical Engineering, Artificial Intelligence Laboratory, Massachusetts Institute of Technology, undated.		

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Examiner	Date	
Signature	 Considered	

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